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=> s protein (3a) kinase
L1 315891 PROTEIN (3A) KINASE

=> s l1 and 1a
L2 1440 L1 AND 1A

=> s l2 and (mutation# or deletion# or insertion# or gap# or substitution# or
polymorphism#)
L3 211 L2 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBSTITU
TION# OR POLYMORPHISM#)

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 132 DUP REM L3 (79 DUPLICATES REMOVED)

=> d 1-132 ti

L4 ANSWER 1 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Gene expression profile biomarkers and therapeutic targets for brain aging
and age-related cognitive impairment in rats

L4 ANSWER 2 OF 132 MEDLINE DUPLICATE 1
TI Functional analysis of the nucleotide binding domain of
membrane-associated guanylate kinases.

L4 ANSWER 3 OF 132 MEDLINE
TI Human herpesvirus 8 envelope glycoprotein B mediates cell adhesion via its
RGD sequence.

L4 ANSWER 4 OF 132 MEDLINE DUPLICATE 2
TI A regulated interaction of syntaxin 1A with the
antidepressant-sensitive norepinephrine transporter establishes
catecholamine clearance capacity.

L4 ANSWER 5 OF 132 MEDLINE
TI **Mutation** in a **protein kinase C**
phosphorylation site of the 5-HT(1A) receptor preferentially
attenuates Ca(2+) responses to partial as opposed to higher-efficacy 5-HT(
1A) agonists.

L4 ANSWER 6 OF 132 MEDLINE DUPLICATE 3
TI Hyperactivation of the G(12)-Mediated Signaling Pathway in Caenorhabditis
elegans Induces a Developmental Growth Arrest via **Protein**
Kinase C.

L4 ANSWER 7 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI Unusual function of the activation loop in the **protein kinase** DYRK1A.

L4 ANSWER 8 OF 132 MEDLINE DUPLICATE 4
 TI Agonist-induced internalization of metabotropic glutamate receptor **1A**: structural determinants for **protein kinase** C- and G **protein**-coupled receptor **kinase**-mediated internalization.

L4 ANSWER 9 OF 132 MEDLINE DUPLICATE 5
 TI Minimal residues in linker domain of syntaxin **1A** required for binding affinity to Ca²⁺/calmodulin-dependent **protein kinase** II.

L4 ANSWER 10 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Protein-protein interactions in adipocyte cells and method for selecting modulators of these interactions

L4 ANSWER 11 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Endocrine disruptor screening using DNA chips of endocrine disruptor-responsive genes

L4 ANSWER 12 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Msn2p/Msn4p act as a key transcriptional activator of yeast cytoplasmic thiol peroxidase II.

L4 ANSWER 13 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Apparent Loss-of-Function Mutant GPCRs Revealed as Constitutively Desensitized Receptors

L4 ANSWER 14 OF 132 MEDLINE DUPLICATE 6
 TI Acute agonist-mediated desensitization of the human alpha **1a** -adrenergic receptor is primarily independent of carboxyl terminus regulation: implications for regulation of alpha **1a**AR splice variants.

L4 ANSWER 15 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Promoter hypermethylation of the death-associated **protein kinase** gene in breast cancer is associated with the invasive lobular subtype

L4 ANSWER 16 OF 132 MEDLINE
 TI Multiple phosphoinositide 3-kinase-dependent steps in activation of **protein kinase** B.

L4 ANSWER 17 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI **Mutations** of the PRKAR1A gene in Cushing's syndrome due to sporadic primary pigmented nodular adrenocortical disease

L4 ANSWER 18 OF 132 MEDLINE DUPLICATE 7
 TI A cAMP-responsive element binding site is essential for sterol regulation of the human lanosterol 14alpha-demethylase gene (CYP51).

L4 ANSWER 19 OF 132 MEDLINE DUPLICATE 8
 TI Genomic studies of the spleen **protein** tyrosine **kinase** locus reveal a complex promoter structure and several genetic variants.

L4 ANSWER 20 OF 132 MEDLINE DUPLICATE 9
 TI Molecular analysis of the cyclic AMP-dependent **protein kinase** A (PKA) regulatory subunit **1A** (PRKAR1A) gene in patients with Carney complex and primary pigmented nodular adrenocortical disease (PPNAD) reveals novel **mutations** and clues for pathophysiology: augmented PKA signaling is associated with adrenal tumorigenesis in PPNAD.

L4 ANSWER 21 OF 132 MEDLINE
 TI Ryanodine receptors, FKBP12, and heart failure.

L4 ANSWER 22 OF 132 MEDLINE DUPLICATE 10
 TI Side-chain **substitutions** within angiotensin II reveal different requirements for signaling, internalization, and phosphorylation of type 1A angiotensin receptors.

L4 ANSWER 23 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Differential regulation of contraction and activation of mitogen activated protein kinases in vascular smooth muscle by the alpha1-adrenoceptor subtypes.

L4 ANSWER 24 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Two novel **mutations** and a new STK11/LKB1 gene isoform in Peutz-Jeghers patients

L4 ANSWER 25 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain

L4 ANSWER 26 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Genetic analysis of carney complex: Current understanding and future questions

L4 ANSWER 27 OF 132 MEDLINE DUPLICATE 11
 TI **Mutation** in the ATP-binding site of BCR-ABL in a patient with chronic myeloid leukaemia with increasing resistance to STI571.

L4 ANSWER 28 OF 132 MEDLINE DUPLICATE 12
 TI A critical **protein kinase** C phosphorylation site on the 5-HT(1A) receptor controlling coupling to N-type calcium channels.

L4 ANSWER 29 OF 132 MEDLINE
 TI Angiotensin II and cAMP regulate AT(1)-mRNA expression in rat cardiomyocytes by transcriptional mechanism.

L4 ANSWER 30 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Methods of determining individual hypersensitivity to a pharmaceutical agent from gene expression profile

L4 ANSWER 31 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Cloning and genetic mapping of human ataxia-telangiectasia gene (ATM) and diagnosis of the disease by **mutation** detection

L4 ANSWER 32 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI TREK-1 regulation by nitric oxide and cGMP-dependent **protein kinase**. An essential role in smooth muscle inhibitory neurotransmission.

L4 ANSWER 33 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Cloning and characterization of an alternatively spliced form of SR **protein kinase** 1 that interacts specifically with scaffold attachment factor-B.

L4 ANSWER 34 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Angiotensin II-induced transcriptional activation of the cyclin D1 gene is mediated by Egr-1 in CHO-AT1A cells

L4 ANSWER 35 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Agonist-induced signaling, desensitization, and internalization of a phosphorylation-deficient AT1A angiotensin receptor.

L4 ANSWER 36 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Spatial-temporal patterning of metabotropic glutamate receptor-mediated inositol 1,4,5-triphosphate, calcium, and **protein kinase C** oscillations. **Protein kinase C**-dependent receptor phosphorylation is not required.

L4 ANSWER 37 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI The complete sequence of the 1,683-Kb pSymB megaplasmid from the N2-fixing endosymbiont Sinorhizobium meliloti.

L4 ANSWER 38 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021

L4 ANSWER 39 OF 132 MEDLINE DUPLICATE 13
 TI Cyclic AMP regulates expression of the RI alpha subunit of cAMP-dependent **protein kinase** through an alternatively spliced 5' UTR.

L4 ANSWER 40 OF 132 MEDLINE
 TI Muscle-regulated expression and determinants for neuromuscular junctional localization of the mouse RIalpha regulatory subunit of cAMP-dependent **protein kinase**.

L4 ANSWER 41 OF 132 MEDLINE DUPLICATE 14
 TI Heterologous activation of **protein kinase C** stimulates phosphorylation of delta-opioid receptor at serine 344, resulting in beta-arrestin- and clathrin-mediated receptor internalization.

L4 ANSWER 42 OF 132 MEDLINE
 TI Distinct molecular determinants govern syntaxin 1A-mediated inactivation and G-protein inhibition of N-type calcium channels.

L4 ANSWER 43 OF 132 MEDLINE DUPLICATE 15
 TI Transcriptional mechanism of **protein kinase C**-induced isoform-specific expression of the gene for endothelin-converting enzyme-1 in human endothelial cells.

L4 ANSWER 44 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Molecular evolution of receptor-like kinase genes in hexaploid wheat. Independent evolution of orthologs after polyploidization and mechanisms of local rearrangements at paralogous loci

L4 ANSWER 45 OF 132 MEDLINE
 TI Molecular basis for angiotensin II-induced increase of chloride/bicarbonate exchange in the myocardium.

L4 ANSWER 46 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Significance of CaMKII-syntaxin interaction in exocytosis.

L4 ANSWER 47 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Regulation of cyclic AMP, (Ca), and MAPK by 5-HT1A receptors in raphe RN46A cells.

L4 ANSWER 48 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI NMDA receptor rundown following PKA stimulation is NR2 subunit-selective: Implications for adaptation to chronic ethanol exposure.

L4 ANSWER 49 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Molecular mechanism of disease in Carney Complex patients with **mutations** in PRKAR1A.

L4 ANSWER 50 OF 132 MEDLINE DUPLICATE 16
 TI Clinical genetics of multiple endocrine neoplasias, Carney complex and related syndromes.

L4 ANSWER 51 OF 132 MEDLINE
 TI The mechanism of angiotensin II-induced extracellular signal-regulated kinase-1/2 activation is independent of angiotensin AT(1A) receptor internalisation.

L4 ANSWER 52 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI **Protein kinase** A in carney complex: a new example of cAMP pathway alteration in endocrine tumors

L4 ANSWER 53 OF 132 MEDLINE
 TI A role of the kinase mTOR in cellular transformation induced by the oncoproteins P3k and Akt.

L4 ANSWER 54 OF 132 MEDLINE
 TI Analysis of the individual role of the TCRzeta chain in transgenic mice after conditional activation with chemical inducers of dimerization.

L4 ANSWER 55 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI The p70 S6 kinase integrates nutrient and growth signals to control translational capacity

L4 ANSWER 56 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Genetic mapping of a neurological **mutation** cerebellar calcification in the rat

L4 ANSWER 57 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Array-based expression analysis of mouse liver genes: Effect of age and of the longevity mutant Prop1df

L4 ANSWER 58 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Point **mutations** and chimeric receptors in studies of ligand binding domains and second messenger activation of .alpha.1-adrenoceptors

L4 ANSWER 59 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Investigation of differentially expressed genes during the development of mouse cerebellum

L4 ANSWER 60 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Method for improving protein production in gram-positive microorganisms by inactivating opp operon gene products

L4 ANSWER 61 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI MAP kinases Erk1/2 phosphorylate sterol regulatory element-binding protein (SREBP)-1a at serine 117 in vitro

L4 ANSWER 62 OF 132 MEDLINE
 TI The rapamycin-sensitive signal transduction pathway as a target for cancer therapy.

L4 ANSWER 63 OF 132 MEDLINE DUPLICATE 17
 TI Genetic heterogeneity and spectrum of **mutations** of the PRKAR1A gene in patients with the carney complex.

L4 ANSWER 64 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Mitochondrial respiratory mutants of Saccharomyces cerevisiae accumulate glycogen and readily mobilize it in a glucose-depleted medium.

L4 ANSWER 65 OF 132 MEDLINE
 TI Beta-arrestin 2: a receptor-regulated MAPK scaffold for the activation of JNK3.

L4 ANSWER 66 OF 132 MEDLINE DUPLICATE 18
 TI **Mutations** in the E2-PePHD and NS5A region of hepatitis C virus

type 1 and the dynamics of hepatitis C viremia decline during interferon alfa treatment.

- L4 ANSWER 67 OF 132 MEDLINE DUPLICATE 19
TI **Mutations** in the **protein kinase**-binding domain of the NS5A protein in patients infected with hepatitis C virus type **1a** are associated with treatment response.
- L4 ANSWER 68 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI **Substitutions** in the PePHD nor ISDR predict IFN+Ribavirin responsiveness in HCV infection.
- L4 ANSWER 69 OF 132 MEDLINE DUPLICATE 20
TI A specific **mutation** in *Saccharomyces cerevisiae* adenylate cyclase, Cyl1K176M, eliminates glucose- and acidification-induced cAMP signalling and delays glucose-induced loss of stress resistance.
- L4 ANSWER 70 OF 132 MEDLINE DUPLICATE 21
TI Lack of clinical evidence for involvement of hepatitis C virus interferon-alpha sensitivity-determining region variability in RNA-dependent **protein kinase**-mediated cellular antiviral responses.
- L4 ANSWER 71 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Functional characterization of PKC-site mutant 5-HT1A receptors in neuronal cells.
- L4 ANSWER 72 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Intracellular calcium regulates associations between norepinephrine transporter and syntaxin **1A**.
- L4 ANSWER 73 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI A method of detecting drug-receptor and protein-protein interactions using G protein .gamma. subunit fusions
- L4 ANSWER 74 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Immunoglobulin molecules having a synthetic variable region and modified specificity
- L4 ANSWER 75 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Recombinant preparation of mutants of genes tpa-**1A** and tpa-1B **protein kinase** C of *Caenorhabditis elegans* using the Baculovirus system
- L4 ANSWER 76 OF 132 MEDLINE
TI Properties of secretin receptor internalization differ from those of the beta(2)-adrenergic receptor.
- L4 ANSWER 77 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Synergism among lysophosphatidic acid, .beta.**1A** integrins, and epidermal growth factor or platelet-derived growth factor in mediation of cell migration
- L4 ANSWER 78 OF 132 MEDLINE
TI CD5 negatively regulates the T-cell antigen receptor signal transduction pathway: involvement of SH2-containing phosphotyrosine phosphatase SHP-1.
- L4 ANSWER 79 OF 132 MEDLINE DUPLICATE 22
TI An Arabidopsis GSK3/shaggy-like gene that complements yeast salt stress-sensitive mutants is induced by NaCl and abscisic acid.
- L4 ANSWER 80 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Use-dependent "agonist" effect of Azimilide on the HERG channel

L4 ANSWER 81 OF 132 MEDLINE DUPLICATE 23
 TI Characterization of the effects of hepatitis C virus nonstructural 5A protein expression in human cell lines and on interferon-sensitive virus replication.

L4 ANSWER 82 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI The oxidative stress response mediated via Pos9/Skn7 is negatively regulated by the Ras/PKA pathway in *Saccharomyces cerevisiae*.

L4 ANSWER 83 OF 132 MEDLINE
 TI Identification of **protein kinase C** phosphorylation sites in the angiotensin II (AT1A) receptor.

L4 ANSWER 84 OF 132 MEDLINE
 TI Transcriptional suppression of rat angiotensin AT1a receptor gene expression by interferon-gamma in vascular smooth muscle cells.

L4 ANSWER 85 OF 132 MEDLINE DUPLICATE 24
 TI Gastrin induces c-fos gene transcription via multiple signaling pathways.

L4 ANSWER 86 OF 132 MEDLINE DUPLICATE 25
 TI A **mutation** in *Saccharomyces cerevisiae* adenylate cyclase, Cyr1K1876M, specifically affects glucose- and acidification-induced cAMP signalling and not the basal cAMP level.

L4 ANSWER 87 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI A complete physical contig and partial transcript map of the Williams syndrome critical region

L4 ANSWER 88 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI The Pib gene for rice blast resistance belongs to the nucleotide binding and leucine-rich repeat class of plant disease resistance genes

L4 ANSWER 89 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI Restoration of .beta.1A integrins is required for lysophosphatidic acid-induced migration of .beta.1-null mouse fibroblastic cells

L4 ANSWER 90 OF 132 MEDLINE
 TI **Protein kinase C** regulates the interaction between a GABA transporter and syntaxin 1A.

L4 ANSWER 91 OF 132 CAPLUS COPYRIGHT 2003 ACS
 TI *Caenorhabditis elegans* Akt/PKB transduces insulin receptor-like signals from AGE-1 PI3 kinase to the DAF-16 transcription factor

L4 ANSWER 92 OF 132 MEDLINE
 TI Identification of regulatory phosphorylation sites in mitogen-activated **protein kinase** (MAPK)-activated **protein kinase-1a/p90rsk** that are inducible by MAPK.

L4 ANSWER 93 OF 132 MEDLINE DUPLICATE 26
 TI Intracellular calcium enhances the ethanol sensitivity of NMDA receptors through an interaction with the C0 domain of the NR1 subunit.

L4 ANSWER 94 OF 132 MEDLINE DUPLICATE 27
 TI Agonist-induced phosphorylation of the angiotensin AT1a receptor is localized to a serine/threonine-rich region of its cytoplasmic tail.

L4 ANSWER 95 OF 132 MEDLINE DUPLICATE 28
 TI Role of cytoplasmic tail of the type 1A angiotensin II receptor in agonist- and phorbol ester-induced desensitization.

L4 ANSWER 96 OF 132 MEDLINE DUPLICATE 29

TI Cloning and characterization of GETS-1, a goldfish Ets family member that functions as a transcriptional repressor in muscle.

L4 ANSWER 97 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Effects of 2,3-butanedione monoxime (BDM) on calcium channels expressed in *Xenopus* oocytes

L4 ANSWER 98 OF 132 MEDLINE DUPLICATE 30
TI Activation of the Sap-1a transcription factor by the c-Jun N-terminal **kinase** (JNK) mitogen-activated **protein kinase**.

L4 ANSWER 99 OF 132 MEDLINE
TI Activation of the c-fos SRE through SAP-1a.

L4 ANSWER 100 OF 132 MEDLINE DUPLICATE 31
TI Convergence of MAP kinase pathways on the ternary complex factor Sap-1a.

L4 ANSWER 101 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Construction of a contiguous 874-kb sequence of the *Escherichia coli*-K12 genome corresponding to 50.0-68.8 min on the linkage map and analysis of its sequence features

L4 ANSWER 102 OF 132 MEDLINE
TI Receptor stimulation causes slow inhibition of IRK1 inwardly rectifying K⁺ channels by direct **protein kinase** A-mediated phosphorylation.

L4 ANSWER 103 OF 132 MEDLINE DUPLICATE 32
TI Lineage-specific control of superantigen-induced cell death by the **protein** tyrosine **kinase** p56(lck).

L4 ANSWER 104 OF 132 MEDLINE DUPLICATE 33
TI Determinants of DNA-binding specificity of ETS-domain transcription factors.

L4 ANSWER 105 OF 132 MEDLINE DUPLICATE 34
TI Oncogenic amino acid **substitutions** in the inhibitory rap-1A protein cause it to adopt a ras-p21-like conformation as computed using molecular dynamics.

L4 ANSWER 106 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Ras/Rap effector specificity determined by charge reversal

L4 ANSWER 107 OF 132 MEDLINE
TI A novel Tth111I restriction fragment length **polymorphism** (RFLP) allows tracing of X-chromosome inactivation in the (Xid) heterozygote.

L4 ANSWER 108 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Mutants of transcription factors affecting expression of immediately early genes in tumorigenesis that inhibit transcription

L4 ANSWER 109 OF 132 MEDLINE
TI Multiple phosphorylation sites are required for pathway-selective uncoupling of the 5-hydroxytryptamine1A receptor by **protein kinase** C.

L4 ANSWER 110 OF 132 MEDLINE DUPLICATE 35
TI Determinants of PKC-dependent modulation of a family of neuronal calcium channels.

L4 ANSWER 111 OF 132 MEDLINE DUPLICATE 36
TI Loss of cortical serotonin2A signal transduction in senescent rats:

reversal following inhibition of **protein kinase C**.

- L4 ANSWER 112 OF 132 MEDLINE DUPLICATE 37
TI Transcription factor ATF2 regulation by the JNK signal transduction pathway.
- L4 ANSWER 113 OF 132 MEDLINE
TI Molecular evidence for the direct involvement of a **protein kinase C** in developmental and behavioural susceptibility to tumour-promoting phorbol esters in *Caenorhabditis elegans*.
- L4 ANSWER 114 OF 132 MEDLINE DUPLICATE 38
TI Up- and down-modulation of a cloned *Aplysia* K⁺ channel (AKv1.1a) by the activators of **protein kinase C**.
- L4 ANSWER 115 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Hereditary hemolytic anemia caused by diverse point **mutations** of pyruvate kinase gene found in Japan and Hong Kong
- L4 ANSWER 116 OF 132 MEDLINE DUPLICATE 39
TI Structural studies on bioactive compounds. 23. Synthesis of polyhydroxylated 2-phenylbenzothiazoles and a comparison of their cytotoxicities and pharmacological properties with genistein and quercetin.
- L4 ANSWER 117 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Genomic organization and expression of Tpl-2 in normal cells and Moloney murine leukemia virus-induced rat T-cell lymphomas: activation by provirus **insertion**
- L4 ANSWER 118 OF 132 MEDLINE DUPLICATE 40
TI Activation of 5-HT₂ receptors facilitates depolarization of neocortical neurons by N-methyl-D-aspartate.
- L4 ANSWER 119 OF 132 MEDLINE
TI Complementation by the **protein tyrosine kinase** JAK2 of a mutant cell line defective in the interferon-gamma signal transduction pathway.
- L4 ANSWER 120 OF 132 MEDLINE DUPLICATE 41
TI Myristoylation of the G alpha i2 polypeptide, a G protein alpha subunit, is required for its signaling and transformation functions.
- L4 ANSWER 121 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI MITOGEN-ACTIVATED **PROTEIN KINASE** ACTIVATION RESULTING FROM SELECTIVE ONCOGENE EXPRESSION IN NIH 3T3 AND RAT **1A** CELLS.
- L4 ANSWER 122 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI PCTAIRE-1 and PCTAIRE-3, two members of a novel cdc2/CDC28-related **protein kinase** gene family
- L4 ANSWER 123 OF 132 MEDLINE DUPLICATE 42
TI pp59fyn mutant mice display differential signaling in thymocytes and peripheral T cells.
- L4 ANSWER 124 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Rat gene mapping using PCR-analyzed microsatellites
- L4 ANSWER 125 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI The amino-terminal 14 amino acids of v-src can functionally replace the extracellular and transmembrane domains of v-erbB
- L4 ANSWER 126 OF 132 MEDLINE
TI A transcriptional enhancer essential for the expression of the rat

cholecystokinin gene contains a sequence identical to the -296 element of the human c-fos gene.

L4 ANSWER 127 OF 132 MEDLINE
TI Transcriptional repression of the neu protooncogene by the adenovirus 5 E1A gene products.

L4 ANSWER 128 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 43
TI A NOVEL TYROSINE KINASE-INDEPENDENT FUNCTION OF DROSOPHILA ABL CORRELATES WITH PROPER SUBCELLULAR LOCALIZATION.

L4 ANSWER 129 OF 132 MEDLINE DUPLICATE 44
TI Cyclic AMP induction of early adenovirus promoters involves sequences required for E1A trans-activation.

L4 ANSWER 130 OF 132 MEDLINE DUPLICATE 45
TI Liver isozyme of rabbit glycogen synthase. Amino acid sequences surrounding phosphorylation sites recognized by cyclic AMP-dependent **protein kinase**.

L4 ANSWER 131 OF 132 CAPLUS COPYRIGHT 2003 ACS
TI Complete nucleotide sequence of bacteriophage T7 DNA and the locations of T7 genetic elements

L4 ANSWER 132 OF 132 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Myristoylation of the G-alpha-i2 polypeptide, a G protein alpha subunit, is required for its signaling and transformation functions.

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FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 06:53:06 ON 28 MAY 2003

L1 315891 S PROTEIN (3A) KINASE
L2 1440 S L1 AND 1A
L3 211 S L2 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBST
L4 132 DUP REM L3 (79 DUPLICATES REMOVED)

=> s l1 (3a) 1a

L5 130 L1 (3A) 1A

=> s l5 and (mutation# or deletion# or insertion# or gap# or substitution# or polymorphism#)

L6 34 L5 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBSTITUTION# OR POLYMORPHISM#)

=> dup rem l6

PROCESSING COMPLETED FOR L6

L7 21 DUP REM L6 (13 DUPLICATES REMOVED)

=> d 1-21 ti

L7 ANSWER 1 OF 21 MEDLINE DUPLICATE 1
TI Hyperactivation of the G(12)-Mediated Signaling Pathway in Caenorhabditis elegans Induces a Developmental Growth Arrest via Protein Kinase C.

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L7 ANSWER 5 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3

TI Molecular analysis of the cyclic AMP-dependent protein kinase A (PKA) regulatory subunit 1A (PRKAR1A) gene in patients with Carney complex and primary pigmented nodular adrenocortical disease (PPNAD) reveals novel **mutations** and clues for pathophysiology: Augmented PKA signaling is associated with adrenal tumorigenesis in PPNAD.

L7 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2003 ACS

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L7 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2003 ACS

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L7 ANSWER 12 OF 21 MEDLINE DUPLICATE 5

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TI **Mutations** in the protein kinase-binding domain of the NS5A protein in patients infected with hepatitis C virus type 1a are associated with treatment response

L7 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2003 ACS

TI Recombinant preparation of mutants of genes tpa-1A and tpa-1B **protein kinase C** of Caenorhabditis elegans using the Baculovirus system

L7 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2003 ACS

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L7 ANSWER 16 OF 21 MEDLINE

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 TI Up- and down-modulation of a cloned *Aplysia* K⁺ channel (AKv1.1a) by the activators of protein kinase C.

L7 ANSWER 19 OF 21 MEDLINE DUPLICATE 7
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L7 ANSWER 21 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Myristoylation of the G-alpha-i2 polypeptide, a G protein alpha subunit, is required for its signaling and transformation functions.

=> d 12 bib ab

L7 ANSWER 12 OF 21 MEDLINE DUPLICATE 5
 AN 2001123976 MEDLINE
 DN 20567489 PubMed ID: 11115848
 TI Genetic heterogeneity and spectrum of **mutations** of the PRKAR1A gene in patients with the carney complex.
 AU Kirschner L S; Sandrini F; Monbo J; Lin J P; Carney J A; Stratakis C A
 CS Unit on Genetics and Endocrinology, Developmental Endocrinology Branch, Building 10, Room 10N262, National Institute of Child Health and Human Development, National Institutes of Health, 10 Center Drive, MSC1862, Bethesda, MD 20892, USA.
 SO HUMAN MOLECULAR GENETICS, (2000 Dec 12) 9 (20) 3037-46.
 Journal code: 9208958. ISSN: 0964-6906.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
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 EM 200102
 ED Entered STN: 20010322
 Last Updated on STN: 20020920
 Entered Medline: 20010222
 AB Carney complex (CNC) is an autosomal dominant multiple neoplasia syndrome, which has been linked to loci on 2p16 and 17q22-24. We recently reported that PRKAR1A, which codes for the type 1A regulatory subunit of **protein kinase A (PKA)**, is a tumor suppressor gene on chromosome 17 that is mutated in some CNC families. To evaluate the spectrum of PRKAR1A **mutations**, we identified its genomic structure and screened for **mutations** in 54 CNC kindreds (34 families and 20 patients with sporadic disease). Fourteen families were informative for linkage analysis: four of four families that mapped to 17q had PRKAR1A **mutations**, whereas there were no **mutations** found in seven families exhibiting at least one recombination with 17q. In six of the latter, CNC mapped to 2p16. PRKAR1A **mutations** were also found in 12 of 20 non-informative families and 7 of 20 sporadic cases. Altogether, 15 distinct PRKAR1A **mutations** were identified in 22 of 54 kindreds (40.7%). In 14 **mutations**, the sequence change was predicted to lead to a premature stop codon; one altered the initiator ATG codon. Mutant mRNAs containing a premature stop codon were unstable, as a result of nonsense-mediated mRNA decay. Accordingly, the predicted truncated PRKAR1A protein products were absent

in these cells. We conclude that (i) genetic heterogeneity exists in CNC; and (ii) all of the CNC alleles on 17q are functionally null **mutations** of PRKAR1A. CNC is the first human disease recognized to be caused by **mutations** of the PKA holoenzyme, a critical component of cellular signaling.

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
50.90	51.32

FULL ESTIMATED COST

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 23, 2003 (20030523/UP).

=> d his

(FILE 'HOME' ENTERED AT 06:51:53 ON 28 MAY 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 06:53:06 ON 28 MAY 2003

L1	315891 S PROTEIN (3A) KINASE
L2	1440 S L1 AND 1A
L3	211 S L2 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBST
L4	132 DUP REM L3 (79 DUPLICATES REMOVED)
L5	130 S L1 (3A) 1A
L6	34 S L5 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBS
L7	21 DUP REM L6 (13 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 07:01:55 ON 28 MAY 2003

=> s prkarla
L8 0 PRKAR1A

=> file medline biosis caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.60	51.92

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 07:08:08 ON 28 MAY 2003

FILE 'BIOSIS' ENTERED AT 07:08:08 ON 28 MAY 2003
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FILE 'CAPLUS' ENTERED AT 07:08:08 ON 28 MAY 2003
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=> s prkarla
L9 85 PRKAR1A

=> s l9 and carney
L10 52 L9 AND CARNEY

=> dup rem l10
PROCESSING COMPLETED FOR L10
L11 28 DUP REM L10 (24 DUPLICATES REMOVED)

=> d 1-28 ti

L11 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2003 ACS
 TI Mutations in the **PRKAR1A** gene for protein kinase A and their use in the diagnosis and treatment of **Carney** complex

L11 ANSWER 2 OF 28 MEDLINE DUPLICATE 1
 TI GH-secreting pituitary adenomas infrequently contain inactivating mutations of **PRKAR1A** and LOH of 17q23-24.

L11 ANSWER 3 OF 28 MEDLINE DUPLICATE 2
 TI Chromosome 2 (2p16) abnormalities in **Carney** complex tumours.

L11 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2003 ACS
 TI Abnormal cell proliferation and aberrant control of hormone secretion in endocrine tumors

L11 ANSWER 5 OF 28 MEDLINE DUPLICATE 3
 TI Clinical and molecular genetics of **Carney** complex.

L11 ANSWER 6 OF 28 MEDLINE
 TI **PRKAR1A**, one of the **Carney** complex genes, and its locus (17q22-24) are rarely altered in pituitary tumours outside the **Carney** complex.

L11 ANSWER 7 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Mutations of the gene encoding the protein kinase A type I-alpha regulatory subunit (**PRKAR1A**) in patients with the "complex of spotty skin pigmentation, myxomas, endocrine overactivity, and schwannomas" (**Carney** complex).

L11 ANSWER 8 OF 28 MEDLINE DUPLICATE 4
 TI Mutations of the **PRKAR1A** gene in Cushing's syndrome due to sporadic primary pigmented nodular adrenocortical disease.

L11 ANSWER 9 OF 28 MEDLINE DUPLICATE 5
 TI Molecular analysis of the cyclic AMP-dependent protein kinase A (PKA) regulatory subunit 1A (**PRKAR1A**) gene in patients with **Carney** complex and primary pigmented nodular adrenocortical disease (PPNAD) reveals novel mutations and clues for pathophysiology: augmented PKA signaling is associated with adrenal tumorigenesis in PPNAD.

L11 ANSWER 10 OF 28 MEDLINE DUPLICATE 6
 TI Sequence analysis of the **PRKAR1A** gene in sporadic somatotroph and other pituitary tumours.

L11 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2003 ACS
 TI Genetic analysis of **carney** complex: Current understanding and future questions

L11 ANSWER 12 OF 28 MEDLINE DUPLICATE 7
 TI Cyclic AMP-dependent signaling aberrations in macronodular adrenal disease.

L11 ANSWER 13 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Protein kinase A may be involved in chromosomal stability: Induction of cytogenetic abnormalities in mouse embryonic fibroblasts by **PRKAR1A** down-regulation.

L11 ANSWER 14 OF 28 MEDLINE DUPLICATE 8
 TI Regulatory subunit type I-alpha of protein kinase A (**PRKAR1A**): a tumor-suppressor gene for sporadic thyroid cancer.

L11 ANSWER 15 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 9

TI Protein-kinase A and human disease: The core of cAMP-dependent signaling in health and disease.

L11 ANSWER 16 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI **PRKAR1A**, a regulator of protein kinase A, is mutated in children with **Carney** Complex and isolated micronodular adrenal hyperplasia.

L11 ANSWER 17 OF 28 MEDLINE DUPLICATE 10
 TI Genetic alterations of **Carney** complex are not present in sporadic cardiac myxomas.

L11 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2003 ACS
 TI Identification of a novel **PRKAR1A** mutation predisposing for **Carney** complex disease

L11 ANSWER 19 OF 28 MEDLINE DUPLICATE 11
 TI Mutations of the gene encoding the protein kinase A type I-alpha regulatory subunit (**PRKAR1A**) in patients with the "complex of spotty skin pigmentation, myxomas, endocrine overactivity, and schwannomas" (**Carney** complex).

L11 ANSWER 20 OF 28 MEDLINE DUPLICATE 12
 TI Clinical and molecular features of the **Carney** complex: diagnostic criteria and recommendations for patient evaluation.

L11 ANSWER 21 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Molecular mechanism of disease in **Carney** Complex patients with mutations in **PRKAR1A**.

L11 ANSWER 22 OF 28 MEDLINE DUPLICATE 13
 TI Clinical genetics of multiple endocrine neoplasias, **Carney** complex and related syndromes.

L11 ANSWER 23 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Assessment of protein kinase A subunits expression in normal adrenal cortex and primary pigmented adrenocortical disease from patients with and without **Carney** Complex and **PRKAR1A** mutations.

L11 ANSWER 24 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI **Carney** complex: Cytogenetic analysis of tumors.

L11 ANSWER 25 OF 28 MEDLINE DUPLICATE 14
 TI Genetics of adrenocortical tumors: **Carney** complex.

L11 ANSWER 26 OF 28 MEDLINE DUPLICATE 15
 TI Genetic heterogeneity and spectrum of mutations of the **PRKAR1A** gene in patients with the **carney** complex.

L11 ANSWER 27 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Genetics of Peutz-Jeghers syndrome, **Carney** complex and other familial lentiginoses.

L11 ANSWER 28 OF 28 MEDLINE DUPLICATE 16
 TI Mutations of the gene encoding the protein kinase A type I-alpha regulatory subunit in patients with the **Carney** complex.

=> d 16-18 bib ab

L11 ANSWER 16 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2002:454824 BIOSIS
 DN PREV200200454824
 TI **PRKAR1A**, a regulator of protein kinase A, is mutated in children

with **Carney** Complex and isolated micronodular adrenal hyperplasia.

AU Sandrini, Fabiano (1); Matyakhina, Ludmila D. (1); Bourdeau, Isabelle (1); Farmakidis, Constantine (1); Keil, Meg (1); Kirschner, Lawrence S. (1); Stratakis, Constantine A. (1)
CS (1) Developmental Endocrinology Branch, National Institute of Child Health and Humans Development, Bethesda, MD USA
SO Pediatric Research, (April, 2002) Vol. 51, No. 4 Part 2, pp. 130A.
<http://www.pedresearch.org/>. print.
Meeting Info.: Annual Meeting of the Pediatric Societies' Baltimore, MD, USA May 04-07, 2002
ISSN: 0031-3998.
DT Conference
LA English

L11 ANSWER 17 OF 28 MEDLINE DUPLICATE 10

AN 2001698106 MEDLINE

DN 21610993 PubMed ID: 11744997

TI Genetic alterations of **Carney** complex are not present in sporadic cardiac myxomas.

AU Fogt Franz; Zimmerman Robert L; Hartmann Christopher J; Brown Charlotte A; Narula Navneet

CS Presbyterian Medical Center, University of Pennsylvania, Philadelphia, PA 19104, USA.. fogt@mail.med.upenn.edu

SO INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, (2002 Jan) 9 (1) 59-60.
Journal code: 9810955. ISSN: 1107-3756.

CY Greece

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200203

ED Entered STN: 20011218

Last Updated on STN: 20020308

Entered Medline: 20020307

AB Cardiac myxomas are the most frequent cardiac tumors and cause for significant morbidity and mortality. Recent evidence indicates that cardiac myxomas are, in fact, neoplasms rather than organized thrombi. Cardiac myxomas may present as solitary lesions or in association with the **Carney** complex. **Carney** complex has been linked to chromosome 2p16 and the **PRKAR1A** gene at 17q22-24. In this study, we analyzed sporadic cardiac myxomas to evaluate whether the genetic alterations seen in **Carney** complex are present in non **Carney** complex associated cardiac myxomas as well. We analyzed microdissected material from 13 patients with cardiac myxomas for the markers PRKAR1 9CA, D2S2153, D2S2251 and D2S123. None of the cases demonstrated loss of heterozygosity or definite band changes suggestive of microsatellite instability for any of the markers used. We conclude that sporadic cardiac myxomas are genetically not related to **Carney** complex and most likely do not represent an incomplete form of **Carney** complex.

L11 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2003 ACS

AN 2002:800329 CAPLUS

DN 138:104644

TI Identification of a novel **PRKAR1A** mutation predisposing for **Carney** complex disease

AU Weinhausel, Andreas; Segovia, I. Gomez; Behmel, A.; Lind, P.; Haas, O. A.

CS Children's Cancer Research Institute (CCRI), St. Anna Children's Hospital, Vienna, Austria

SO Journal of Endocrine Genetics (2002), 3(1), 33-36

CODEN: JEJEF6; ISSN: 1565-012X

PB Freund

DT Journal

LA English

AB The 'classic' multiple endocrine neoplasias (MEN) are autosomal dominant inherited cancer predisposition syndromes caused by inactivating mutations of the MENIN gene in patients with MEN1 and activating mutations of the RET protooncogene in MEN2A (FMTC) and MEN2B. Patients suffering from **Carney** complex (CNC) also present with multiple endocrine and other tumors. Recent work has identified inactivating mutations in all exons except exons 4A, 9 and 10 of the **PRKAR1A** gene on 17q22-24. By mutation anal. of the predisposing genes for both MEN1 and CNC we identified a novel mutation affecting the splice site of exon 4A of the **PRKAR1A** gene in a family suffering from CNC. In addn., we found four single nucleotide exchanges within the gene region. Based on pedigree anal. and mutation data, these would be assigned as polymorphisms.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 28 bib ab

L11 ANSWER 28 OF 28 MEDLINE DUPLICATE 16
AN 2001012470 MEDLINE
DN 20428189 PubMed ID: 10973256
TI Mutations of the gene encoding the protein kinase A type I-alpha regulatory subunit in patients with the **Carney** complex.
AU Kirschner L S; Carney J A; Pack S D; Taymans S E; Giatzakis C; Cho Y S; Cho-Chung Y S; Stratakis C A
CS Unit on Genetics & Endocrinology, Developmental Endocrinology Branch, National Institute of Child Health and Human Development, Bethesda, Maryland, USA.
SO NATURE GENETICS, (2000 Sep) 26 (1) 89-92.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AC005799
EM 200010
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001030
AB **Carney** complex (CNC) is a multiple neoplasia syndrome characterized by spotty skin pigmentation, cardiac and other myxomas, endocrine tumours and psammomatous melanotic schwannomas. CNC is inherited as an autosomal dominant trait and the genes responsible have been mapped to 2p16 and 17q22-24 (refs 6, 7). Because of its similarities to the McCune-Albright syndrome and other features, such as paradoxical responses to endocrine signals, genes implicated in cyclic nucleotide-dependent signalling have been considered candidates for causing CNC (ref. 10). In CNC families mapping to 17q, we detected loss of heterozygosity (LOH) in the vicinity of the gene (**PRKAR1A**) encoding protein kinase A regulatory subunit 1-alpha (RIalpha), including a polymorphic site within its 5' region. We subsequently identified three unrelated kindreds with an identical mutation in the coding region of **PRKAR1A**. Analysis of additional cases revealed the same mutation in a sporadic case of CNC, and different mutations in three other families, including one with isolated inherited cardiac myxomas. Analysis of PKA activity in CNC tumours demonstrated a decreased basal activity, but an increase in cAMP-stimulated activity compared with non-CNC tumours. We conclude that germline mutations in **PRKAR1A**, an apparent tumour-suppressor gene, are responsible for the CNC phenotype in a subset of patients with this disease.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	10.74	62.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: May 23, 2003 (20030523/UP).

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(FILE 'HOME' ENTERED AT 06:51:53 ON 28 MAY 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 06:53:06 ON 28 MAY 2003

L1 315891 S PROTEIN (3A) KINASE
 L2 1440 S L1 AND 1A
 L3 211 S L2 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBST
 L4 132 DUP REM L3 (79 DUPLICATES REMOVED)
 L5 130 S L1 (3A) 1A
 L6 34 S L5 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBS
 L7 21 DUP REM L6 (13 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 07:01:55 ON 28 MAY 2003

L8 0 S PRKAR1A

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 07:08:08 ON 28 MAY 2003

L9 85 S PRKAR1A
 L10 52 S L9 AND CARNEY
 L11 28 DUP REM L10 (24 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 07:10:00 ON 28 MAY 2003

=> dup rem 19

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	0.12	62.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-0.65

FILE 'MEDLINE' ENTERED AT 07:11:18 ON 28 MAY 2003

FILE 'BIOSIS' ENTERED AT 07:11:18 ON 28 MAY 2003
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 PROCESSING COMPLETED FOR L9
 L12 46 DUP REM L9 (39 DUPLICATES REMOVED)

=> d 30-46 ti

L12 ANSWER 30 OF 46 MEDLINE DUPLICATE 15
 TI Clinical and molecular features of the Carney complex: diagnostic criteria

and recommendations for patient evaluation.

- L12 ANSWER 31 OF 46 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Molecular mechanism of disease in Carney Complex patients with mutations in **PRKARIA**.
- L12 ANSWER 32 OF 46 CAPLUS COPYRIGHT 2003 ACS
TI A set of 840 mouse oocyte genes with well-matched human homologs
- L12 ANSWER 33 OF 46 MEDLINE DUPLICATE 16
TI Clinical genetics of multiple endocrine neoplasias, Carney complex and related syndromes.
- L12 ANSWER 34 OF 46 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Assessment of protein kinase A subunits expression in normal adrenal cortex and primary pigmented adrenocortical disease from patients with and without Carney Complex and **PRKARIA** mutations.
- L12 ANSWER 35 OF 46 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Carney complex: Cytogenetic analysis of tumors.
- L12 ANSWER 36 OF 46 MEDLINE DUPLICATE 17
TI Genetics of adrenocortical tumors: Carney complex.
- L12 ANSWER 37 OF 46 CAPLUS COPYRIGHT 2003 ACS
TI Protein-protein complexes from *Saccharomyces* and human and their use in drug and fungicide screening
- L12 ANSWER 38 OF 46 MEDLINE DUPLICATE 18
TI Genetic heterogeneity and spectrum of mutations of the **PRKARIA** gene in patients with the carney complex.
- L12 ANSWER 39 OF 46 CAPLUS COPYRIGHT 2003 ACS
TI Prevalence and distribution of *ret/ptc* 1, 2, and 3 in papillary thyroid carcinoma in New Caledonia and Australia
- L12 ANSWER 40 OF 46 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Genetics of Peutz-Jeghers syndrome, Carney complex and other familial lentiginoses.
- L12 ANSWER 41 OF 46 MEDLINE DUPLICATE 19
TI *PECAM1*, *MPO* and **PRKARIA** at chromosome 17q21-q24 and susceptibility for multiple sclerosis in Sweden and Sardinia.
- L12 ANSWER 42 OF 46 MEDLINE DUPLICATE 20
TI Mutations of the gene encoding the protein kinase A type I-alpha regulatory subunit in patients with the Carney complex.
- L12 ANSWER 43 OF 46 MEDLINE DUPLICATE 21
TI Molecular cytogenetic mapping of 24 CEPH YACs and 24 gene-specific large insert probes to chromosome 17.
- L12 ANSWER 44 OF 46 MEDLINE DUPLICATE 22
TI Mapping of the **Prkar1a** gene to mouse chromosome 11.
- L12 ANSWER 45 OF 46 MEDLINE DUPLICATE 23
TI RFLPs at the porcine locus encoding the type I-alpha regulatory subunit of the cAMP-dependent protein kinase (**PRKARIA**).
- L12 ANSWER 46 OF 46 MEDLINE DUPLICATE 24
TI Mapping of the regulatory type I alpha and catalytic beta subunits of cAMP-dependent protein kinase and interleukin 1 alpha and 1 beta in the pig.

=> d 42 bib ab

L12 ANSWER 42 OF 46 MEDLINE DUPLICATE 20
AN 2001012470 MEDLINE
DN 20428189 PubMed ID: 10973256
TI Mutations of the gene encoding the protein kinase A type I-alpha
regulatory subunit in patients with the Carney complex.
AU Kirschner L S; Carney J A; Pack S D; Taymans S E; Giatzakis C; Cho Y S;
Cho-Chung Y S; Stratakis C A
CS Unit on Genetics & Endocrinology, Developmental Endocrinology Branch,
National Institute of Child Health and Human Development, Bethesda,
Maryland, USA.
SO NATURE GENETICS, (2000 Sep) 26 (1) 89-92.
Journal code: 9216904. ISSN: 1061-4036.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AC005799
EM 200010
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001030
AB Carney complex (CNC) is a multiple neoplasia syndrome characterized by
spotty skin pigmentation, cardiac and other myxomas, endocrine tumours and
psammomatous melanotic schwannomas. CNC is inherited as an autosomal
dominant trait and the genes responsible have been mapped to 2p16 and
17q22-24 (refs 6, 7). Because of its similarities to the McCune-Albright
syndrome and other features, such as paradoxical responses to endocrine
signals, genes implicated in cyclic nucleotide-dependent signalling have
been considered candidates for causing CNC (ref. 10). In CNC families
mapping to 17q, we detected loss of heterozygosity (LOH) in the vicinity
of the gene (**PRKAR1A**) encoding protein kinase A regulatory
subunit 1-alpha (RIalpha), including a polymorphic site within its 5'
region. We subsequently identified three unrelated kindreds with an
identical mutation in the coding region of **PRKAR1A**. Analysis of
additional cases revealed the same mutation in a sporadic case of CNC, and
different mutations in three other families, including one with isolated
inherited cardiac myxomas. Analysis of PKA activity in CNC tumours
demonstrated a decreased basal activity, but an increase in
cAMP-stimulated activity compared with non-CNC tumours. We conclude that
germline mutations in **PRKAR1A**, an apparent tumour-suppressor
gene, are responsible for the CNC phenotype in a subset of patients with
this disease.

=> d his

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FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 06:53:06 ON 28 MAY 2003

L1 315891 S PROTEIN (3A) KINASE
L2 1440 S L1 AND 1A
L3 211 S L2 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBST
L4 132 DUP REM L3 (79 DUPLICATES REMOVED)
L5 130 S L1 (3A) 1A
L6 34 S L5 AND (MUTATION# OR DELETION# OR INSERTION# OR GAP# OR SUBS
L7 21 DUP REM L6 (13 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 07:01:55 ON 28 MAY 2003

L8 0 S PRKAR1A

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 07:08:08 ON 28 MAY 2003

L9 85 S PRKARIA
L10 52 S L9 AND CARNEY
L11 28 DUP REM L10 (24 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 07:10:00 ON 28 MAY 2003

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 07:11:18 ON 28 MAY 2003
L12 46 DUP REM L9 (39 DUPLICATES REMOVED)

=> dup rem l5
PROCESSING COMPLETED FOR L5
L13 83 DUP REM L5 (47 DUPLICATES REMOVED)

=> d 50 bib

L13 ANSWER 50 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
16
AN 1997:251934 BIOSIS
DN PREV199799551137
TI Evidence for reversible tyrosine protein phosphorylation in the okadaic
acid-producing marine dinoflagellate *Prorocentrum lima*.
AU Dawson, John F.; Ostergaard, Hanne L.; Klix, Heide; Boland, Marion P.;
Holmes, Charles F. B. (1)
CS (1) Dep. Biochem., Univ. Alberta, Edmonton, AB T6G 2H7 Canada
SO Journal of Eukaryotic Microbiology, (1997) Vol. 44, No. 2, pp. 89-95.
ISSN: 1066-5234.
DT Article
LA English

=> d 30 bib

L13 ANSWER 30 OF 83 MEDLINE DUPLICATE 9
AN 2001170294 MEDLINE
DN 21031671 PubMed ID: 11270969
TI Tyrosine kinase participates in alpha 1A-adrenoceptor-mediated increase of
intracellular calcium in human embryo kidney 293 cells.
AU Zhu W Z; Gao B B; Li H W; Zhang Y Y; Han Q D
CS Institute of Vascular Medicine, Third Hospital, Beijing Medical
University, Beijing 100083, China.
SO CHUNG-KUO YAO LI HSUEH PAO [ACTA PHARMACOLOGICA SINICA], (1999 Nov) 20
(11) 1025-30.
Journal code: 8100330. ISSN: 0253-9756.
CY China
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200103
ED Entered STN: 20010404
Last Updated on STN: 20010404
Entered Medline: 20010329

=> d 20 bib

L13 ANSWER 20 OF 83 CAPLUS COPYRIGHT 2003 ACS
AN 2001:252354 CAPLUS
DN 135:17637
TI Protein kinase A in carney complex: a new example of cAMP pathway
alteration in endocrine tumors
AU Bertherat, Jerome
CS Service d'endocrinologie and CNRS UPR 1524, CHU Cochin, Paris, 75014, Fr.
SO European Journal of Endocrinology (2001), 144(3), 209-211
CODEN: EJOEEP; ISSN: 0804-4643

PB BioScientifica
DT Journal; General Review
LA English
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 20-83 ti

- L13 ANSWER 20 OF 83 CAPLUS COPYRIGHT 2003 ACS
TI Protein kinase A in carney complex: a new example of cAMP pathway alteration in endocrine tumors
- L13 ANSWER 21 OF 83 CAPLUS COPYRIGHT 2003 ACS
TI .alpha.1A adrenergic receptor induces eukaryotic initiation factor 4E-binding protein 1 phosphorylation via a Ca2+-dependent pathway independent of phosphatidylinositol 3-kinase/Akt
- L13 ANSWER 22 OF 83 CAPLUS COPYRIGHT 2003 ACS
TI Differential regulation of the phosphatidylinositol 3-kinase/Akt and p70 S6 kinase pathways by the .alpha.1A-adrenergic receptor in Rat-1 fibroblasts
- L13 ANSWER 23 OF 83 MEDLINE DUPLICATE 7
TI Genetic heterogeneity and spectrum of mutations of the PRKAR1A gene in patients with the carney complex.
- L13 ANSWER 24 OF 83 CAPLUS COPYRIGHT 2003 ACS
TI Mutations in the protein kinase-binding domain of the NS5A protein in patients infected with hepatitis C virus type 1a are associated with treatment response
- L13 ANSWER 25 OF 83 CAPLUS COPYRIGHT 2003 ACS
TI Interferon .beta.-1a downregulates TNF.alpha.-induced intercellular adhesion molecule 1 expression on brain microvascular endothelial cells through a tyrosine kinase-dependent pathway
- L13 ANSWER 26 OF 83 MEDLINE DUPLICATE 8
TI Roles of mitogen-activated **protein** kinases and **protein kinase C** in alpha(1A)-adrenoceptor-mediated stimulation of the sarcolemmal Na(+)-H(+) exchanger.
- L13 ANSWER 27 OF 83 CAPLUS COPYRIGHT 2003 ACS
TI Role of .alpha.1A-adrenoceptor in the regulation of glucose uptake into white adipocyte of rats in vitro
- L13 ANSWER 28 OF 83 CAPLUS COPYRIGHT 2003 ACS
TI Recombinant preparation of mutants of genes tpa-1A and tpa-1B **protein kinase C** of Caenorhabditis elegans using the Baculovirus system
- L13 ANSWER 29 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Inhibition of **protein** tyrosine **kinase** activity by 1a-docosahexaenoyl mitomycin C.
- L13 ANSWER 30 OF 83 MEDLINE DUPLICATE 9
TI Tyrosine kinase participates in alpha 1A-adrenoceptor-mediated increase of intracellular calcium in human embryo kidney 293 cells.
- L13 ANSWER 31 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI P/Q-type calcium channels mediate the activity-dependent feedback of syntaxin-1A.
- L13 ANSWER 32 OF 83 MEDLINE DUPLICATE 10

TI Differential regulation of 46 and 54 kDa jun N-terminal kinases and p38 mitogen-activated **protein kinase** by human alpha(1A)-adrenoceptors expressed in Rat-1 cells.

L13 ANSWER 33 OF 83 MEDLINE DUPLICATE 11
 TI No role for Ca++ or **protein kinase C** in alpha-1A adrenergic receptor activation of mitogen-activated protein kinase pathways in transfected PC12 cells.

L13 ANSWER 34 OF 83 MEDLINE DUPLICATE 12
 TI Inhibition of **protein tyrosine kinase** activity by 1a-docosaehaenoyl mitomycin C.

L13 ANSWER 35 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 13
 TI Protein kinase C regulates the interaction between a GABA transporter and syntaxin A.

L13 ANSWER 36 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Caenorhabditis elegans Akt/PKB transduces insulin receptor-like signals from AGE-1 PI3 kinase to the DAF-16 transcription factor

L13 ANSWER 37 OF 83 MEDLINE DUPLICATE 14
 TI Identification of regulatory phosphorylation sites in mitogen-activated protein **kinase** (MAPK)-activated **protein kinase** -1a/p90rsk that are inducible by MAPK.

L13 ANSWER 38 OF 83 MEDLINE DUPLICATE 15
 TI 1a-docosaehaenoyl mitomycin C: a novel inhibitor of protein tyrosine kinase.

L13 ANSWER 39 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Stimulation of .alpha.1A-adrenoceptors in Rat-1 cells inhibits extracellular signal-regulated kinase by activating p38 mitogen-activated protein kinase

L13 ANSWER 40 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Involvement of calmodulin in 5-HT1A receptor-activation of mitogen activated protein kinase and Na+/H+ exchange in fibroblasts.

L13 ANSWER 41 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Alpha-1A adrenergic receptor stimulation with phenylephrine promotes arachidonic acid release by activation of phospholipase D in rat-1 fibroblasts: inhibition by protein kinase A

L13 ANSWER 42 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI .alpha.1A-Adrenoceptor mediated contraction of rat prostatic vas deferens and the involvement of ryanodine stores and Ca2+ influx stimulated by diacylglycerol and PKC

L13 ANSWER 43 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Mel 1a melatonin receptor expression is regulated by protein kinase C and an additional pathway addressed by the protein kinase C inhibitor Ro 31-8220 in ovine pars tuberalis cells

L13 ANSWER 44 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Molecular analyses of the tpa-1 gene and its role in the development and behavior of Caenorhabditis elegans

L13 ANSWER 45 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Characterization of the interaction between products of a Caenorhabditis elegans operon: PKC1 and kup-1

L13 ANSWER 46 OF 83 CAPLUS COPYRIGHT 2003 ACS

TI Human signal transduction mitogen-activated protein kinase kinases

L13 ANSWER 47 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI The activated anaplastic lymphoma kinase increases cellular proliferation and oncogene up-regulation in rat 1a fibroblasts

L13 ANSWER 48 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Changes in kinetic properties of Ca²⁺/calmodulin-dependent protein kinase Ia activated by Ca²⁺/calmodulin-dependent protein kinase I kinase

L13 ANSWER 49 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Protein tyrosine kinase, mitogen-activated protein kinase and protein kinase C are involved in the mitogenic signaling of platelet-activating factor (PAF) in HEC-1A cells

L13 ANSWER 50 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 16
 TI Evidence for reversible tyrosine protein phosphorylation in the okadaic acid-producing marine dinoflagellate *Prorocentrum lima*.

L13 ANSWER 51 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Ras-dependent activation of fibroblast mitogen-activated **protein kinase** by 5-HT-1A receptor via a G protein beta-gamma-subunit-initiated pathway.

L13 ANSWER 52 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI .alpha.1-Adrenoceptor stimulation partially inhibits ATP-sensitive K⁺ current in guinea pig ventricular cells: attenuation of the action potential shortening induced by hypoxia and K⁺ channel openers

L13 ANSWER 53 OF 83 MEDLINE DUPLICATE 17
 TI The role of diacylglycerol and activation of **protein kinase C** in alpha 1A-adrenoceptor-mediated contraction to noradrenaline of rat isolated epididymal vas deferens.

L13 ANSWER 54 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Evidence against a role for protein kinase C in the regulation of the angiotensin II (AT-1A) receptor.

L13 ANSWER 55 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Effect of phorbol myristate acetate on .alpha.1-adrenergic action in cells expressing recombinant .alpha.1-adrenoceptor subtypes

L13 ANSWER 56 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Multiple phosphorylation sites are required for pathway-selective uncoupling of the 5-hydroxytryptamine-1A receptor by **protein kinase C**.

L13 ANSWER 57 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Angiotensin II induces transcription and expression of alpha-1-adrenergic receptors in vascular smooth muscle cells.

L13 ANSWER 58 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI The tpa-1 gene of *Caenorhabditis elegans* encodes two proteins similar to Ca²⁺-independent protein kinase Cs: evidence by complete genomic and complementary DNA sequences of the tpa-1 gene

L13 ANSWER 59 OF 83 MEDLINE DUPLICATE 18
 TI Characterization of a protein kinase gene from two *Chlorella* viruses.

L13 ANSWER 60 OF 83 MEDLINE DUPLICATE 19
 TI Molecular evidence for the direct involvement of a protein kinase C in developmental and behavioural susceptibility to tumour-promoting phorbol esters in *Caenorhabditis elegans*.

L13 ANSWER 61 OF 83 MEDLINE DUPLICATE 20
 TI Up- and down-modulation of a cloned Aplysia K⁺ channel (AKv1.1a) by the activators of protein kinase C.

L13 ANSWER 62 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Activation of protein kinase C from guinea-pig and rat ventricular muscles by musclide-A1 and its (2R,5S)-diastereomer

L13 ANSWER 63 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Both .alpha.1A- and .alpha.2A-adrenoreceptor subtypes stimulate voltage-operated L-type calcium channels in rat portal vein myocytes. Evidence for two distinct transduction pathways

L13 ANSWER 64 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI A protein activator of Ca²⁺-calmodulin-dependent protein kinase Ia

L13 ANSWER 65 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Mechanism of desensitization of the cloned vasopressin V-1a receptor expressed in Xenopus oocytes.

L13 ANSWER 66 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Inactivation of nuclear inhibitory polypeptides of protein phosphatase-1 (NIPP-1) by protein kinase A

L13 ANSWER 67 OF 83 MEDLINE DUPLICATE 21
 TI Myristoylation of the G alpha i2 polypeptide, a G protein alpha subunit, is required for its signaling and transformation functions.

L13 ANSWER 68 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI PCTAIRE-1 and PCTAIRE-3, two members of a novel cdc2/CDC28-related protein kinase gene family

L13 ANSWER 69 OF 83 MEDLINE DUPLICATE 22
 TI A synthesis of 2-endo-amino-2-exo-hydroxymethylnorbornenes having inhibitory activity against protein kinase C.

L13 ANSWER 70 OF 83 MEDLINE DUPLICATE 23
 TI Synergistic phosphorylation of rabbit muscle glycogen synthase by cyclic AMP-dependent protein kinase and casein kinase I. Implications for hormonal regulation of glycogen synthase.

L13 ANSWER 71 OF 83 MEDLINE
 TI Synthesis and evaluation of iodinated analogues of diacylglycerols as potential probes for protein kinase C.

L13 ANSWER 72 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Differential responsiveness to phorbol esters correlates with differential expression of protein kinase C in KG-1 and KG-1a human myeloid leukemia cells

L13 ANSWER 73 OF 83 MEDLINE DUPLICATE 24
 TI Cell type-specific expression of protein kinase C isozymes in the rabbit cerebellum.

L13 ANSWER 74 OF 83 CAPLUS COPYRIGHT 2003 ACS
 TI Effects of phorbol ester on translocation and down-regulation of protein kinase C and phosphorylation of endogenous proteins in human acute myeloid leukemia cell line KG-1 and its phorbol ester-resistant subline KG-1a

L13 ANSWER 75 OF 83 MEDLINE DUPLICATE 25
 TI A type-1 casein kinase from yeast phosphorylates both serine and threonine residues of casein. Identification of the phosphorylation sites.

L13 ANSWER 76 OF 83 MEDLINE DUPLICATE 26
 TI Phosphorylation site specificities of glycogen synthase kinases: determination by peptide mapping using high-performance liquid chromatography.

L13 ANSWER 77 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 27
 TI GLYCOGEN SYNTHASE EC-2.4.1.11 FROM RABBIT SKELETAL MUSCLE EFFECT OF INSULIN ON THE STATE OF PHOSPHORYLATION OF THE 7 PHOSPHO SERINE RESIDUES IN-VIVO.

L13 ANSWER 78 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 28
 TI GLYCOGEN SYNTHASE EC-2.4.1.11 FROM RABBIT SKELETAL MUSCLE STATE OF PHOSPHORYLATION OF THE 7 PHOSPHO SERINE RESIDUES IN-VIVO IN THE PRESENCE AND ABSENCE OF ADRENALINE.

L13 ANSWER 79 OF 83 MEDLINE DUPLICATE 29
 TI Multisite phosphorylation of glycogen synthase from rabbit skeletal muscle. Organisation of the seven sites in the polypeptide chain.

L13 ANSWER 80 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI A REINVESTIGATION OF THE PHOSPHORYLATION OF RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE EC-2.4.1.11 BY CYCLIC AMP DEPENDENT PROTEIN KINASE EC-2.7.1.37 IDENTIFICATION OF THE 3RD SITE OF PHOSPHORYLATION AS SERINE 7.

L13 ANSWER 81 OF 83 MEDLINE DUPLICATE 30
 TI Glycogen synthase from rabbit skeletal muscle. Amino acid sequence at the sites phosphorylated by glycogen synthase kinase-3, and extension of the N-terminal sequence containing the site phosphorylated by phosphorylase kinase.

L13 ANSWER 82 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI RECEPTOR MEDIATED GONADOTROPIN ACTION IN OVARY DIFFERENTIAL EFFECTS OF VARIOUS GANGLIOSIDES AND CHOLERA ENTERO TOXIN ON IODINE-125 CHORIO GONADOTROPIN BINDING PRODUCTION OF CYCLIC AMP AND STEROIDOGENESIS IN RAT OVARIAN CELLS.

L13 ANSWER 83 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Myristoylation of the G-alpha-i2 polypeptide, a G protein alpha subunit, is required for its signaling and transformation functions.

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L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 2003:77419 CAPLUS

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TI Mutations in the PRKAR1A gene for protein kinase A and their use in the diagnosis and treatment of Carney complex

IN Stratakis, Constantine; Kirschner, Lawrence

PA United States Dept. of Health and Human Services, USA

SO U.S. Pat. Appl. Publ., 47 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

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PRAI	US 2000-228211P	P	20000825		

AB The present invention provides compns. and methods useful in the diagnosis and prognosis of Carney complex (CNC), as well as methods and compns. for the identification of compds. useful in the treatment and/or prevention of CNC. Specifically, mutations in the PRKAR1A gene for the regulatory subunit of of protein kinase A are described. In addn., the present invention provides compns. and methods useful in the diagnosis and treatment of conditions assocd. with skin pigmentation defects, including but not limited to freckling, as well as endocrine tumors including, but not limited to adrenal and pituitary tumors. In addn., the present invention provides methods and compns. for the diagnosis and treatment of various types of cancers assocd. with abnormal activity of protein kinase A. In particular, the present invention provides genetic and other sequence information, as well as assay systems that will find use in these and related areas.